b. a plurality of generally cylindrical pile sections, each pile section being provided with a non-circular transition portion formed at ends of the pile section, said pile sections are connectable end-to-end at non-circular transition portions, the pile sections and non-circular transition portions having hollow bores, a lowermost of the pile sections being connectable to a top of said upper tapered transition section of the anchor, and wherein each of the pile sections carries a plurality of circumferentially spaced radially extending soil displacement ribs;

c. a drive means for transmitting rotational force to the pile sections and the anchor, said drive means comprising drive members that fit inside the bores within end portions of the pile sections between respective pile sections, said non-circular transition portion of one pile section adjoining a non-circular surface of an adjacent pile section, and wherein each of the drive members comprises an enlarged diameter section that occupies a joint open bore during use;

d. wherein non-circular surfaces enable torque to be transmitted from the drive means to the pile sections; and

e. a connecting means for connecting a lower end portion of one of the pile sections and an upper end portion of the anchor.

26. (cancel)

27. The apparatus of claim 25 wherein the pile sections have end portions that are shaped to fit the end portion of another pile section in telescoping fashion.

28. (cancel)

Clean version of claims

1–21. (cancel)

22. A multi-section pile apparatus, comprising:

a. a lowermost anchor that is configured to be driven into a soil mass by rotation, the anchor having a solid shaft and a helically threaded vane portion attached thereto;

b. a plurality of pile sections that are connectable end-to-end at non-annular joint portions, the pile sections and joint portions having hollow bores, a lowermost of the pile sections being connectable to a top of the anchor, wherein the pile sections have end portions that are shaped to fit a squared end portion of another pile section in telescoping fashion and wherein each of the pile sections carries a plurality of circumferentially spaced radially extending soil displacement ribs;

c. a rotary drive means for transmitting rotational force to the pile sections and the anchor, said drive means comprising drive members that fit inside end portions of the pile sections; and

d. wherein the joint portions are configured with non-annular surfaces that enable torque to be transmitted from the rotary drive to the pile sections.

23. (cancel)

24. (cancel)

25. A multi-section pile apparatus, comprising:

a. a lowermost anchor that is configured to be driven into a soil mass by rotation, the anchor having a shaft with helically threaded vane portion and an upper tapered transition section;